Table of Contents: Volume 5

Number 1

Special Issue: Real-Time Languages and Language-Level Timing Tools and Analysis
Issue Editor: Alexander D. Stoyenko

Editorial ..... *John A. Stankovic* 5
Introduction ..... *Alexander D. Stoyenko* 9
A Partial Evaluator for the Maruti Hard Real-Time System ..... *Vivek Nirkhe and William Pugh* 13
Predicting Program Execution Times by Analyzing Static and Dynamic Program Paths ..... *Chang Yun Park* 31
RTC: Language Support for Real-Time Concurrency ..... *Victor Fay Wolfe, Susan Davidson, and Insup Lee* 63
Timing Analysis of MRL: A Real-Time Rule-Based System ..... *Chih-Kan Wang and Aloysius K. Mok* 89
Contributing Authors 129

Numbers 2/3

Special Issue: Incremental Prototyping Technology for Embedded Real-Time Systems
Guest Editor: Sandro Bologna

Editorial i
Guest Introduction: The IPTES Project ..... *Sandro Bologna* 135
IPTES: A Concurrent Engineering Approach for Real-Time Software Development ..... *P. Pulli and R. Elmstrøm* 139
The IPTES Environment: Support for Incremental Heterogeneous and Distributed Prototyping ..... *Gonzalo León, Juan Carlos Dueñas, Juan A. de la Puente, Nabil Zakhama, and Alejandro Alonso* 153
Graphical Animation as a Form of Prototyping Real-Time Software Systems ..... *P. Pulli, M. Heikkinen, and R. Lintulampi* 173
An Executable Subset of VDM-SL, in an SA/RT Framework ..... *René Elmstrøm, Poul Bøgh Lassen, and Michael Andersen* 197
Distributed Execution of Specifications ..... *Juan A. de la Puente, Alejandro Alonso, Gonzalo León, and Juan Carlos Dueñas* 213
High-Level Timed Petri Nets as a Kernel for Executable Specifications ..... *Miguel Felder, Carlo Ghezzi, and Mauro Pezzé* 235
Giving Semantics to SA/RT by Means of High-Level Times Petri Nets ..... *René Elmstrøm, Raino Lintulampi, and Mauro Pezzé* 249
Contributing Authors 273

Number 4

A Formalization of Priority Inversion ..... *Özalp Babaoğlu, Keith Marzullo, and Fred B. Schneider* 285
Deadlock Prevention in Concurrent Real-Time Systems ..... *Susan Davidson, Insup Lee, and Victor Fay Wolfe* 305
Pipelined Processors and Worst Case Execution Times ..... *N. Zhang, A. Burns, and M. Nicholson* 319
A Comparison of Four Microcomputer Operating Systems ..... *George Wells* 345
Contributing Authors 369